The formation of molecular compounds in the reaction between $[MgCl_2(THF)_2]$ and $[MoCl_3O(THF)_2]$. Crystal structure of $[\{MoCl_4O(THF)\}_2Mg(THF)_4]\cdot CH_2Cl_2$.

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Streszczenie

The interaction of $[MgCl_2(THF)_2]$ with $[MoCl_3O(THF)_2]$ in 1:1 and 1:2 ratios in CH_2Cl_2 gave the paramagnetic complexes $[(THF)_3Mg(\mu\text{-}Cl)_3MoCl_2O]$ **I** and $[\{MOCl_4O(THF)\}_2Mg(THF)_4]\cdot CH_2Cl_2$ **II** (THF, tetrahydrofuran). In complex **I**, the molybdenum and magnesium atoms are octahedrally surrounded by three bridging chlorine atoms and terminal oxo-oxygen and two chlorine atoms and by three THF molecules, respectively. Complex **II** consists of Mg^{2+} ions coordinated by four THF molecules and two *trans*$[MoCl_4O(THF)]^-$ anions coordinated to an Mg atom by oxo O-atoms.

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